# METHODS AND CIRCUITS FOR IMPLEMENTING PROGRAMMABLE GAMMA CORRECTION

## ABSTRACT:

[0049] A method of gamma correction includes selecting lower and upper reference curves corresponding to selected reference gamma values. A gamma correction curve is generated from a corresponding gamma correction value and cross-correlated with the upper and lower reference curves to generate a corresponding set of cross-correlation factors. The set of cross-correlation factors are stored and indexed to the corresponding gamma value. An input value is received for gamma correction with the corresponding gamma value. Data from the upper and lower reference curves indexed by the input value are then operated one with the cross-correlation factors to generate a gamma corrected output value.